



# NAVY AND MARINE CORPS SPECTRUM OFFICES (NMCSO)



## SHORE SUPPORT

**(INSTALLATION SPECTRUM MANAGER (ISM)/FLEET  
SUPPORT)**

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# NMCSO Mission



- The NMCSO is responsible to ensure USN/USMC access to and effective use of the electromagnetic spectrum in national security and military operations.
- This support includes three primary areas:
  - implement and enforce DOD and DON spectrum management policy and guidance;
  - **provide afloat, shore, joint spectrum management support and training;**
  - provide support to Navy Marine Corps Spectrum Center (NMSC) which serves as the DON center of excellence for matters pertaining to electromagnetic spectrum management.



# NMCSO Spectrum Mgmt



- NMCSO Offices provide Regional shore support
  - Supporting COMTHIRDFLT and COMSEVENTHFLT
  - [Base/Facility/installation](#)
  - Coastal Areas – SECONDFLT, THIRDFLT, FOURTHFLT, SEVENTHFLT, I, II and III MEF units
- Naval Telecommunications Publication 6 (NTP-6)
- CLF/CPF OPORD 201/2000 Annex K
- C3F OPORD 201 Annex K / C7F CEI Annex K/COMUSNAVEUR 4000
- Marine Corps Order 2401.2A (07Oct2009)
- Other OPORD (COMPATWINGPAC/TSCOM, SUBPAC, ...)
- ISM Instructions



# NMCSO Spectrum Mgmt Cont.



- AESOP – OPTASKCOMMS CSG/ESG baseline plans
- Frequency Request
  - Receipt/Initiation
  - Coordination
  - Submission to NMSC/NTIA
  - Back brief user
- Equipment Certification (DD1494/JF12)
- RFI/EMI (Joint Spectrum Interference Report (JSIR))
- EW / EA / GPS EA / CREWS Clearance request



# NMCSO Regions

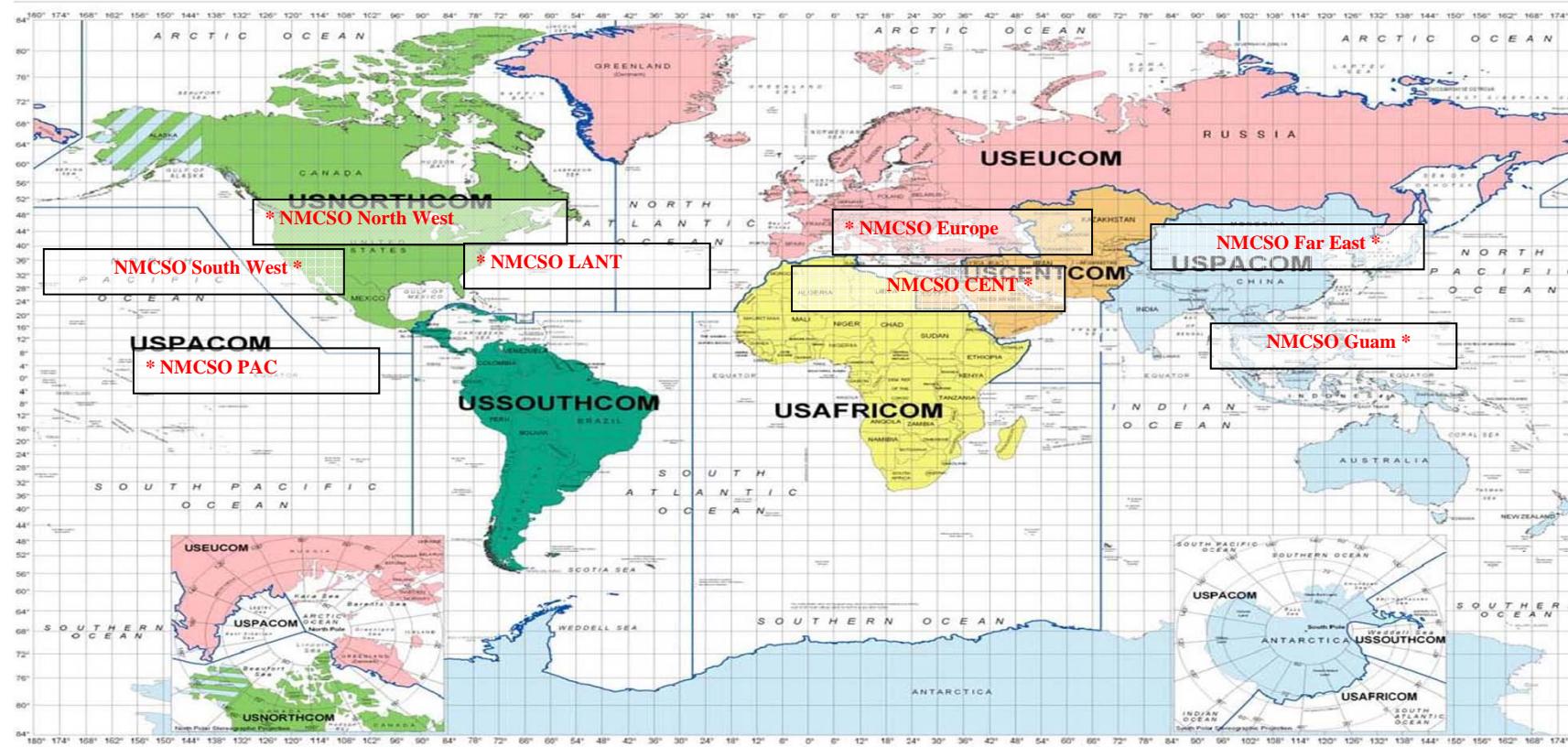


HE WORLD 1:60,000,000

## THE WORLD WITH COMMANDERS' AREAS OF RESPONSIBILITY

EDITION 8 NGA  
BASED ON  
UNIFIED COMMAND PLAN  
17 DECEMBER 2008

SERIES



EDITION 8 NGA  
SERIES



PREPARED AND PUBLISHED BY THE  
NATIONAL GEOSPATIAL-INTELLIGENCE AGENCY  
ST. LOUIS, MO  
Map information as of 2008

State of Alaska assigned to USNORTHCOM's  
Area of Responsibility. The State of Alaska  
remains assigned to USPACOM.

Users should refer corrections, additions, and comments to the NGA Enterprise Service Desk: 1-800-455-0899; COMMERCIAL 301-227-9811; DSN 287-9811;  
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1:60,000,000  
MILLER CYLINDRICAL PROJECTION

The 1950 Israeli proclamation that  
Jerusalem be the capital of Israel  
not recognized by the United States.  
+ West Bank and Gaza Strip - "Israeli-occupied with current  
status subject to the Israeli - Palestinian Interim Agreement --  
permits status to be determined through further negotiation."

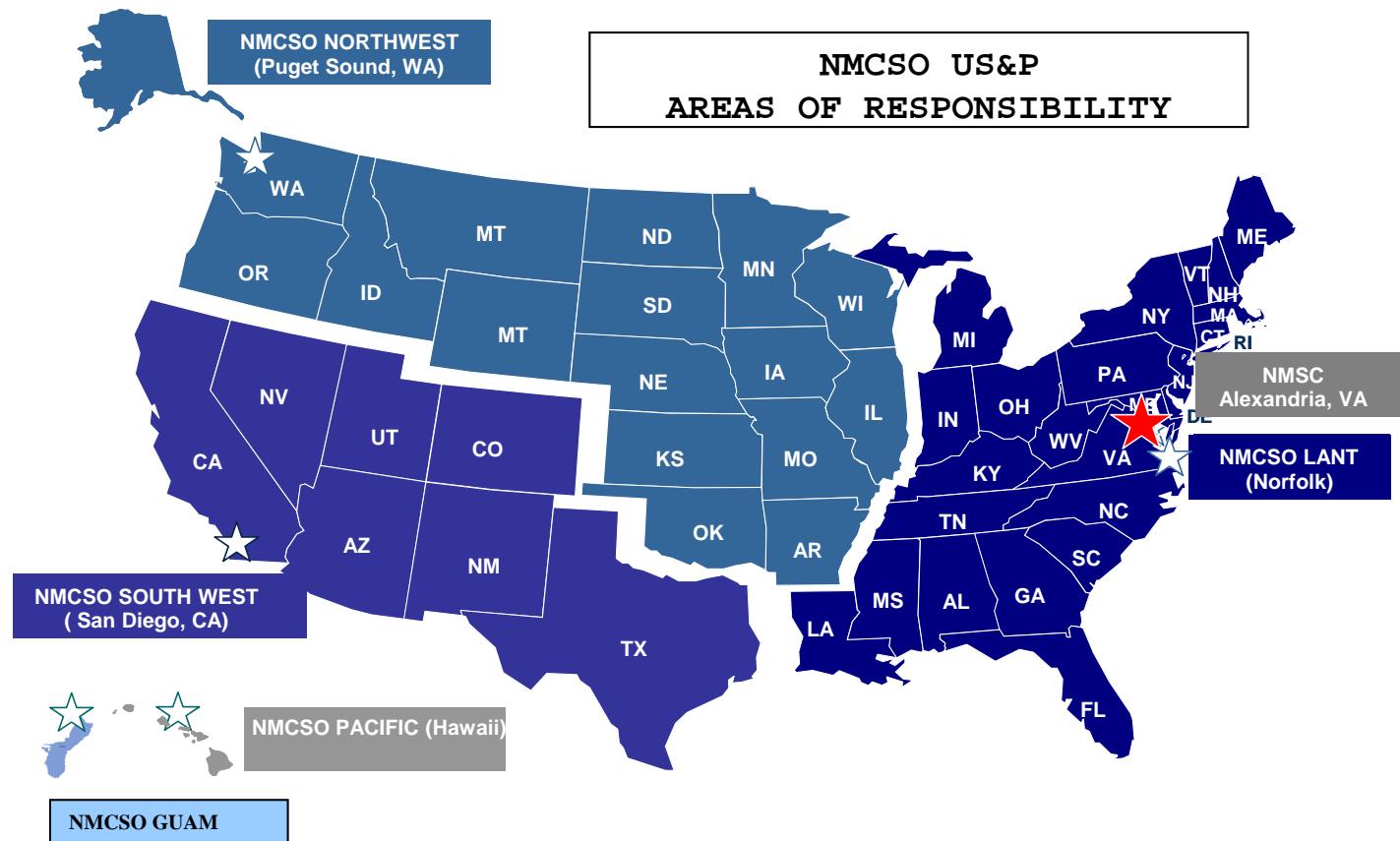
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MAP EFFECTIVE 17 DECEMBER 2008



# NMCSO Regions U.S. & Possessions





# Spectrum Management Two Part Process



## Certification (DD1494/JF12)

- Regulations Compliance
- Allocations Compliance
- Standards Compliance
- What other systems are in band?
- Spectrum availability to support requirement?
- Host Nation supportability and coordination
- License to procure

## Freq. Assignment, (SFAF)

- Approval to use a specific channel/frequency in a specified manner
- License to radiate





# Frequency Assignment



- Frequency assignment is the second part of the two part process of authorizing a system or equipment to radiate using the electromagnetic spectrum.
- A frequency assignment is the “license to radiate” on a discrete frequency or frequencies within a specified set of constraints, such as power, emission bandwidth, location of antenna, operating time of day, etc.
- All Radio Frequency (RF) emitters must have an approved frequency assignment prior to conducting testing, evaluation or operations within the US&P or in foreign countries.



# Frequency Assignment Cont.



- Reference appropriate fleet guidance on frequency submission request. Follow Chain of Command on submission request:
  - NTP-6
  - Marine Corps Order 2401.2A
  - COMSEVENTHFLT iaw C7F C2000.1J
  - COMTHIRDFLT iaw APP 8 to Annex K to C3F OPORD 201
  - COMSUBPAC Annex K
  - FACSFAC OPTASK LINKS
  - SOPA Instructions
  - National and International policy variations



# Radiation Restrictions

- Frequency assignment authorization to transmit (RADAR or Comms in port) (FACSFAC, SUBPAC, MIDPAC, ATG, NCTAMS, etc)
- SOPA Instructions (Communications, Emergency Dispersal, and Heavy Weather).
- Regional Regulations for HERO
- AESOP Spectrum Restriction Policy for Radar/Communications
  - Keep Current



# AESOP & CSG/ESG Plans



## Afloat Electromagnetic Spectrum Operations Program

- Mandated by CNO WASHINGTON DC/021532ZMAY2005
- All afloat communications and radar plan development, modification, and dissemination with AESOP.
- NMCSO responsible for coordination and maintenance of frequency assignments and standard CSG/ESG plans working in conjunction with Fleet.
  - NTP-6
  - ISM
- Regional NMCSO responsible for coordination of in port use of frequencies.
- Discontinue use of legacy CSG plans. Guidance forthcoming.(Pubs)



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**#NMCSOPAC\_SPECTRUM**

**ALSO MONITORS**  
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**MGMT SITE: (SIPRNET ONLY)**  
**HTTP://WWW.PR.CAS.NAVY.SMIL.MIL/DON/SIT**  
**E.NSF/**

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# QUESTIONS?

Spectrum Management Challenges for the 21<sup>st</sup> Century

